KOSHUNOV, M.

Biology of Alhagi persarum Boiss. et Buhse of the lake sands along the Kara Kum Canal. Izv.AN Turk.SSR.Ser.biol.nauk no.4:75-78 165. (MIRA 18:9)

1. Institut pustyn! AN Turkmenskoy SSR.

SVINTSOV, I.P.; KOSHUNOV, M.

Effect of temporary flooding on the development of tree plantations. Izv. AN Turk. SSR. Ser. biol. nauk no.5:79-82 163.

(MINA 17:10)

1. Institut pustyn' AN Turkmenskoy SSR.

ACC NR. AP6002803

(1)

SOURCE CODE: UR/0237/60/000/002/0032/0036

AUTHOR: Koshur, L. T.; Sintsova, I. T.

ORG: none

TITLE: Study of the problem of stabilization of zirconium dioxide

SOURCE: Optiko-mekhanicheskaya promyshlennost, no. 2, 1960, 32-36

TOPIC TAGS: zirconium dioxide, zirconium compound, refractory compound, refractory product

ABSTRACT: Because of its chemical and thermal stability, density, and strength at high temperatures, zirconium dioxide is of interest in the development of highly refractory materials applicable for the melting of glass batches at high temperatures. The authors established the effect of stabilizing additives, firing temperature, and holding period on the formation of stable solid solutions of ZrO₂. Two batches of commercial-grade ZrO₂ were used as raw material. It was found that CaO and MgO could be used as stabilizing additives to promote transition from the initial, thermally unstable monoclinic ZrO₂ to the thermally stable cubic modification, optimum amounts of the additives being 10 and 14 mol.%, respectively. The degree of stabilization was

Card	1	1	2

ACC NR: AP6002803

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825110020-2' checked by means of chemical phase analysis and x-ray diffraction analysis, as well as visually. It was found that the best method of stabilizing is by sintering in an electric arc furnace at temperatures of not less than 1700°C and preferably above 2000°C. The pressure employed in compacting the specimens should not be less than 500 kg/cm².

SUB CODE: 07, // SUBM DATE: 14Jul59/ ORIG REF: 004/ OTH REF: 005

Card 2/2

ACC NR: AP6032945

with higher CeO_2 content. The Y_2O_3 -containing samples also exhibited a satisfactory thermal-shock resistance since they displayed firecracks after 11 thermal cycles only. The samples with 8 mol% Y2O3 and 10% unfired ZrO_2 broke down after 25 thermal cycles. The La_2O_3 addition was the least efficient stabilizer of ZrO_2 . Improved thermal-shock resistance was correlated with the presence of both cubic and monoclinic ZrO_2 . Positive results were obtained with the stabilized ZrO_2 products which were tested in laboratory and pilot-plant at 2000C under a severe temperature gradient. Orig. art. has: 2 figures and 1 table.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 008/ OTH REF: 002/ ATD PRESS: 5096

Refractory Compound

Card 2/2 egh

ACCESSION NR: AP4015112

\$/0136/64/000/002/0070/0075

AUARROVER, FOR BELEASE, 06/4/4/2000, YuCIA-RDP86-00513R000825110020-2"

TITLE: Forces on the ram during tube extrusion.

SOURCE: Tsvetny*ye metall.y*, no. 2, 1964, 70-75

TOPIC TAGS: Extrusion, extrusion force, tube extrusion, ram, design, upsetting, ram stress, ram compression, ram stretching force

ABSTRACT: Measurements were made of forces applied to 15, 26, 45 and 55 mm. diameter rams used in extruding tubes having 2,3,4, and 6 mm. walls from 150 x 200 mm. copper billets on a 1500 ton horizontal press. On upsetting the billet the forces on the ram increase to a maximum and then decrease as it approaches the die. The upsetting proceeds in two stages characterized by reverse flow of the metal which is progressively retarded by frictional forces until the deformation of the ingot is caused by shearing of the non-upset portion of the billet at the bottom. The nature of the change in stresses on

ACCESSION NR: AP4015112

the ram along the length of the ingot and the position of the maximum stress depends on the ratio of the ram and the container diameter. As the diameter of the ram decreases, the position of the maximum stress shifts in the direction of the die. The total of the stresses on the ram, σ , is the sum of the stresses due to the cutting forces, σ'' , and the frictional forces, σ'' : $\sigma = 2(\sigma' + \sigma')$, Z being the temperature coefficient accounting for the cooling of the metal (limits of 1.0-1.6). The force on the ram may be expressed by $P = (\pi d^2/4)$. The compression stresses on the ram decrease as its diameter increases, e.g. increasing the diameter from 15 to 55 mm. reduces stresses from 45 to 25 kg/mm². Resistance to deformation increases on transition from upsetting to extrusion, and the friction increases until it is the only force on the ram as the metal flows through the die. The forces on the ram are less with a larger diameter ram and a tube with thicker walls. Stretching forces are developed on the ram on removing it at the end of the extrusion. As a result of these investigations a new ram has been constructed (Shevakin, Yu. F., Ry*tikov, A.M. and Koshurin, A.V., inventor certificate No. 143009) comprising the combination of a larger removable ram and a smaller operating ram

Card 2/3

ACCESSION NR: AP4015112

which is longer than present rams. "V. A. Petrov and V. I. Polovin-kina participated in conducting the experimental work." Orig. art. has: 2 tables, 5 equations and 3 figures.

ASSOCIATION: None

SUBMITTED: 00

DATE AUQ: 12Mar64

ENCL: 00

SUB CODE: MD, ML

NE REF SOV: 006

OTHER: 001

Card 3/3

KOSHURIN, A.V.

136-8-3/21

AUTHORS: Strakhov, G.N., Engineer, Koshurin, A.V., Engineer

TITLE: Extrusion of Bars with a Movable Container Bush (Pressovaniye prutkov s podvizhnoy vtulkoy konteynera)

PERIODICAL: Tsvetnye Metally, 1957, Nr 8, pp.16-20 (USSR)

ABSTRACT: The authors (photographs given) consider two schemes of metal flow during extrusion (Fig.1), possible causes of lamination and ways of avoiding them. They comment favourably on reverse flow extrusion and suggest that unsatisfactory surface qualities obtained in previous investigations were due to unavailability of suitable equipment. To overcome this snortage the authors proposed the use of a movable container bush to enable forward action presses to be used for reverse-flow extrusion. Here the ingot is placed in the movable bush whose length is half that of the container (Fig.2). Details of this method are given and its application to different alloys on a 1500 ton horizontal hydraulic press is described, a metal balance for 20-35 mm diameter bars of one alloy extruded from ingots 350 mm long and 175 mm in diameter. Various modifications of equipment and procedure have been tried and its use extended to a wider range of alloys. This work and the latest form of the

Card 1/2

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825110020-2" 136-8-3/21

Extrusion of Bars with a Movable Container Bush.

equipment is described (Fig.3) and advantages of the technique are considered. Future work is outlined. There are 3 figures.

ASSOCIATION: "Krasnyy Vyborzhets" Works (Zavod "Krasnyy Vyborzhets) AVAILABLE: Library of Congress.

Card 2/2

SOV/136-59-4-11/24

AUTHORS: Shevakin, Yu.F., Candidate of Technical Sciences,

Rytikov, A.M., Sharov, I.Ye., Butomo, D.G., Koshurin, A.V.,

Sergeyeva, Z.L., Engineers

TITLE: Comparison of the Efficiency of Tube Production from

Non-Ferrous Metals and their Alloys by Cold-Rolling and

by Drawing Methods (Ekonomicheskaya effektivnost! proizvodstva trub iz tsvetnykh metallov i splavov kholodnoy prokatkoy po sravneniyu s volocheniyem)

PERIODICAL: Tsvetnyye metally, 1959, Nr 4, pp 57-63 (USSR)

ABSTRACT: Opinion was divided on the relative merits of the

different methods of tube production, therefore the present investigation was carried out. All sizes of tubes were tried by the two methods. It was shown that output from cold-rolling was 10-25% higher than that from drawing (table 1). The machine-hours and man-hours for cold-rolling were shorter than for drawing (table 2). Table 3 shows the increase in production by cold-rolling

with better equipment. By cold-rolling with modern

equipment the machine-hours and man-hours could be cut by

Card 1/3 two in the production of copper tube. The economy in

CIA-RDP86-00513R000825110020-2"

APPROVED FOR RELEASE: 06/14/2000

SOV/136-59-4-11/24

Comparison of the Efficiency of Tube Production from Non-Ferrous Metals and their Alloys by Cold-Rolling and by Drawing Methods

this case was 224 roubles per ton and in other cases varied from 165 to 374 roubles per ton. The number of operations in the copper tube production was reduced from 27 to 18. The production of condenser tubes in L68 (brass) alloy has been increased from 70-90 to 180-200 m/hr. An advantage of cold-rolling is that deformation can be up to 94% of the initial section. It also allows the manufacture of tubes from L68 without an intermediate temper, giving a tensile strength of 75-77 kg/mm² and an elongation of 2.5-3%. For materials which are difficult to deform (e.g. some Ti alloys) cold-rolling is a superior method of tube production as the machinery is cheaper and the number of operations is reduced. At present, work is in hand for a cold-rolling mill which will produce two or three tubes simultaneously.

SOV/136-59-4-11/24

Comparison of the Efficiency of Tube Production from Non-Ferrous Metals and their Alloys by Cold-Rolling and by Drawing Methods

There are 5 tables and 4 references, 3 of which are Soviet and 1 German.

ASSOCIATIONS. Institut stali; Zavod "Krasnyy Vyborzhets";
Kol'chuginskiy zavod po obrabotke tsvetnykh metallov i
splavov (Steel Enstitute; "Krasnyy Vyborzhets" Works
and Kol'chugino Works for Processing of Non-Ferrous
Metals and Alloys)

Card 3/3

AUTHORS:

Koshurin A.V. Engineer;

Shevakin, Yu.F., Candidate of Technical Sciences and

Rytikov, A.M., Engineer

TITLE:

Mastering the Technique of Manufacturing Hollow Shapes

of Asymmetrical Cross-Section

PERIODICAL: Tsvetnyye metally, 1960, Nr 2, pp 64-72 (USSR)

ABSTRACT:

Aluminium and aluminium alloy tubes of both symmetrical and asymmetrical cross-section are at present extensively made by extrusion through bridge dies. This method is not suitable for extruding copper tubes of this type owing to much higher extrusion

temperature and the tendency of copper to oxidize; the former affects the stability of the die, the latter causes difficulties in the formation of good quality weld between two streams of the extruded material. It was for this reason that the method of extruding copper hollow shapes of asymmetrical cross-section through a die with compensating die aperture(s) has been developed, the present paper reporting the work carried out in this

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connection. The shape of the tube, whose fabrication

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825110020-2" \$/136/60/000/02/014/022 E193/E483

Mastering the Technique of Manufacturing Hollow Shapes of Asymmetrical Cross-Section

has been investigated, is shown in Fig 1; the range of dimensions (in mm) is given in the table in Fig 1. It follows from the theoretical considerations that if no precautions were taken, section F_{I} of the tube would emerge from the die at a rate higher than that of section F_{II} (see Fig 1); the tendency of the metal to emerge at a uniform rate would result in an increase of the area $F_{
m T}$ and displacement of the mandrel towards the section Fil. The rate at which the metal emerges from the die on the side of section FI can be reduced only by increasing the quantity of metal extruded on this side and this can be attained only by the provision of an additional compensating aperture(s) in the die. To investigate the effect of the area and circumferences of the compensating aperture(s) and its (their) distance from the mandrel axis on the extrusion process. 14 experimental dies were prepared. The design of these dies is illustrated in Fig 2; the distance of the compensating aperture(s) in dies Nr 1 to 8 is shown in

Card 2/9

S/136/60/000/02/014/022 E193/E483

Mastering the Technique of Manufacturing Hollow Shapes of Asymmetrical Cross-Section

finally, graph "g" shows Δz (mm) plotted against the distance (1, mm) between the compensating aperture and the mandrel axis in dies Nr 9 to 14, for two areas of the compensating aperture: $F_{np} = 783$ mm² (upper curve) and $F_{np} = 1020$ mm² (lower curve). It was established on the basis of these results that the areas of the compensating aperture, F_{np} , is given by the following general formula:

$$F_{np} = (F_{II} - F_{I}) \cdot \frac{\prod_{I} + \sum \prod_{np}}{\prod}$$
 (1)

where: $\Sigma\Pi_{np}$ - sum of the circumferences of the compensating aperture(s) (mm); Π_{I} - circumference of part F_{I} of the cross-section of the extruded shape (mm); Π_{II} - circumference of part F_{II} of the cross-section of the extruded shape (mm). The size of the compensating aperture of a circular shape is given by the formula

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Mastering the Technique of Manufacturing Hollow Shapes of Asymmetrical Cross-Section

$$D_{np} = 2a \left(1 + \sqrt{1 + \frac{\Pi_{\underline{I}}}{\Pi_{\underline{I} \cdot \underline{a} \cdot \underline{n}}}}\right) \qquad (2)$$

where: D_{np} + diameter (mm) of the compensating aperture; n - number of compensating apertures:

$$a = \frac{F_{II} - F_{I}}{\Pi_{II}}$$

The application of this formula is

illustrated (see the bottom of p 66) by calculating the optimum value of D_{np} for the die shown in Fig 2 (dies Nr 1 to 6), which is found to be equal 24.0 mm; its area of 452 mm² corresponds (as can be seen in Fig 3a) to $\Delta z = 0$. The method, described above, was used in designing a series of dies, employed in fabricating a trial batch of hollow shapes as illustrated in Fig 1; the dies were made of steel 3Kh2V8, mandrel of steel E1661. The results showed that, with the aid of

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APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825110020-2'

Mastering the Technique of Manufacturing Hellow Shapes of Asymmetrical Cross-Section

dies with compensating aperture(s), hollow shapes of the type under consideration can be successfully extruded if the diameter of the hollow (dimension D) is not less than 14 mm. Hollow shapes with $D > 14 \, \mathrm{mm}$ were fabricated by extruding blanks which were then reduced to the required size by cold rolling. The problems, associated with the latter operation, are discussed in the second part of the present paper which is concerned mainly with the design of the roll pass for $>\!\!\!>$ this application. Fig 4 shows (a) the deformation zone and (b) the horizontal projection of the areas of contact in rolling the hollow shape of the cross-section shown in Fig 1. The analytical solution of the roll pass design was based on two fundamental conditions: (1) equality of the total deformation of contours I and II (see Fig 1); (2) equality of the horizontal projections of the areas of contact between metal and the top and bottom rolls. After deriving the necessary formulae, the authors show how they are applied in

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Mastering the Technique of Manufacturing Hollow Shapes of Asymmetrical Cross-Section

through the rolls with (A) open and (B) closed passes. In order to study the flow of metal during rolling, aluminium pins were inserted in the blanks. X-ray photographs of sections of the tubes before (a) and after (b) rolling in both open (photograph 1) and closed (photograph II) passes, reproduced in Fig 9, show that practically no distortion of the pins occurred during rolling, thus confirming the validity of the principles on which the present authors based their calculations, and proving that calculations starting from the external geometry on the hollow shapes of asymmetrical cross-section alone cannot give the correct solution. After rolling, the tubes (30 to 40 m long) were coiled having first passed through two dies: the first die removed the surface imperfections (fins, burrs etc), the second die acting as the sizing die. (The authors point out, in this connection, that passing the tube through the first die is less likely to affect the roundness of the hollow in case of tubes rolled in

Card 8/9

Mastering the Technique of Manufacturing Hollow Shapes of Asymmetrical Cross-Section

a closed pass since, in this case, the fins are not situated opposite the hollow.) After concluding that the method described in the present paper can be used for designing roll passes for relling asymmetrical sections with hollows of any shape (square, rectangular) from blanks with circular hollows, they point out that although hollow shapes with asymmetrical cross-section can be also made by rolling blanks of symmetrical cross-section, a portion of the material being cut off in the course of rolling (see Fig 10), the disadvantage of this method lies in that it is more likely to give rise to surface defects (laps). There are 10 figures, 4 tables and 5 Soviet references.

ASSOCIATIONS: Zavod "Krasnyy Vyborzhets" ("Red Elector" Plant)
Moskovskiy institut stali (Moscow Steel Institute)

Card 9/9

BUTOMO, D.G.; VAYZHLYA, N.M.; ZVONKINA, V.F.; KOSHURIN, A.V.; SERGEYEV, L.N.; FRUMKINA, Yu.A.

Concerning the "Handbook on the processing of nonferrous metals and alloys" TSvet.met. 35 no.12:60 D '62. (MIRA 16:2)

1. Sovet Nauchno-tekhnicheskogo obshchestva zavoda "Krasnyy Vyborzhets".

(Nonferrous metals)

YELISEYEV, E.N.; RUDENKO, L.Ye.; SINEV, L.A.; KOSHURNIKOV, B.L.; SOLOVOV, N.I.

Polymorphism of copper side in the Cu₂S--Cu_{1,8}S. Min. sbor. 18 no.4:385-400 '64. (MIRA 18:7)

1. Gosudarstvennyy universitet imeni Ivana Franko, L'vov, laboratoriya pirometallurgii medi Gorno-metallurgicheskogo kombinata imeni Zavenyagina, Noril'sk i tsekh zavodskikh laboratoriykombinata "Severonikel'", Monchegorsk.

MUKHLENOV, I.P.; SHABEL'NIKOV, A.P.; Prinimali uchastiye: KOSHURNIKOV, B.L.; GOVOROV, V.P.; BONDARCHUK, T.P.

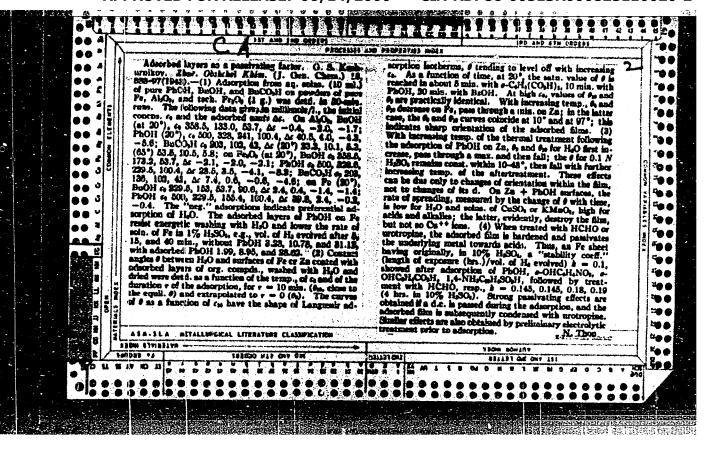
Study of the processes of water-cycling concentration and purification of sulfur dioxide. Zhur.prikl.khim. 37 no.1:3-8 Ja '64.

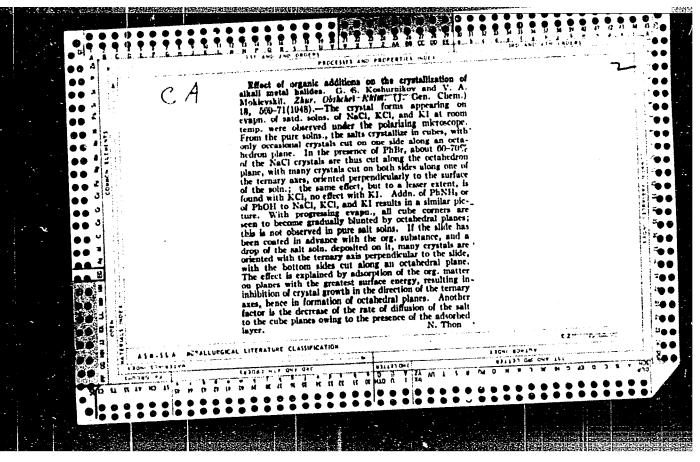
(MIRA 17:2)

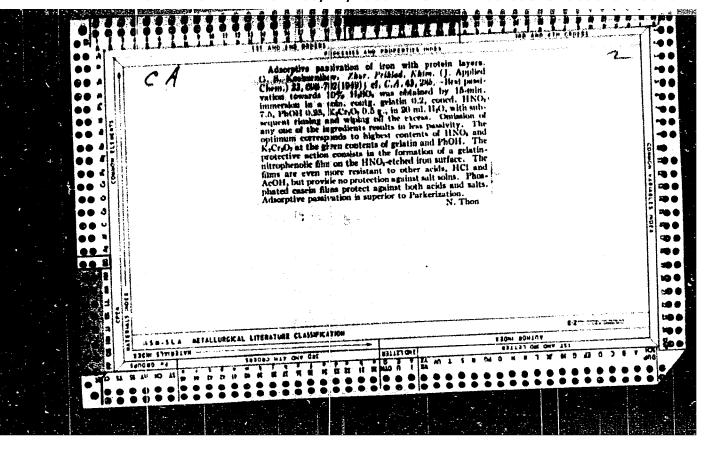
1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

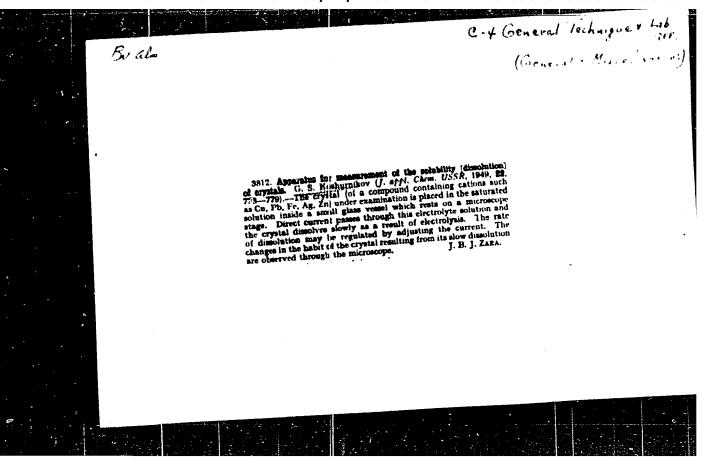
KOSHURNIKOV, G. S.

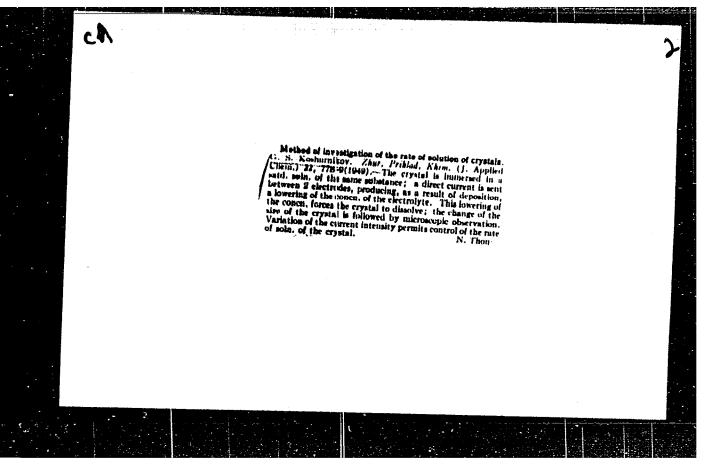
"Influence of size of ions on the electromotive force of a galvanic cell." (p. 1125)
SO: <u>Journal of General Chemistry</u>, (Zhurnal Obshchei Khimii), 1940, Vol. 20, No. 7.



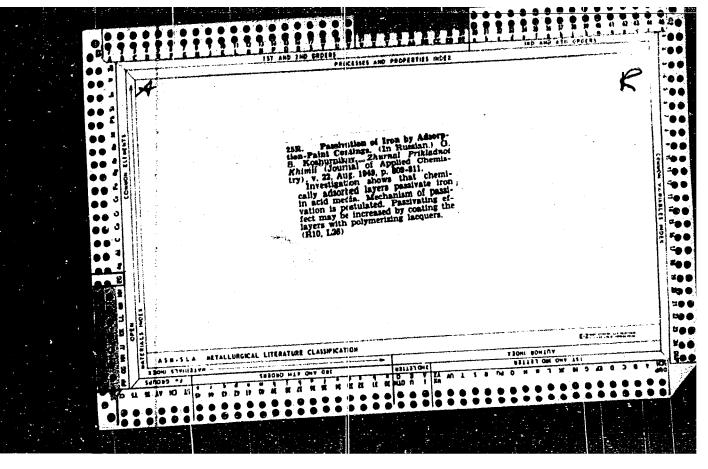


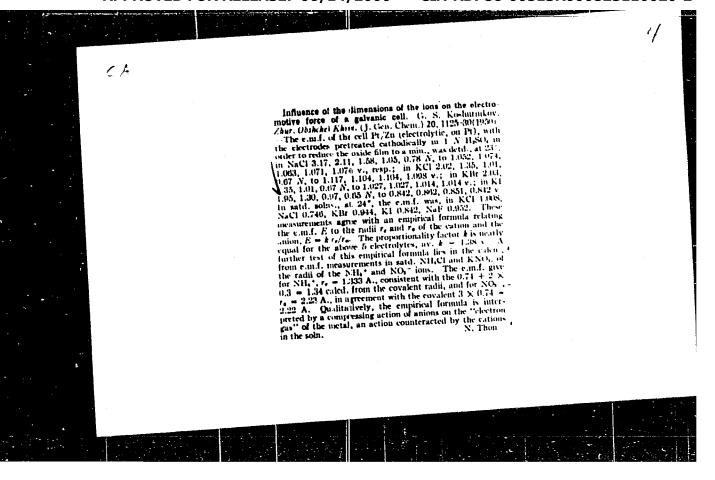


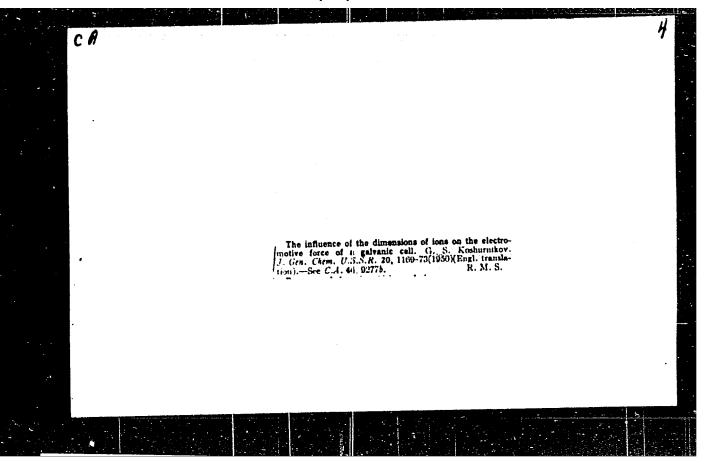


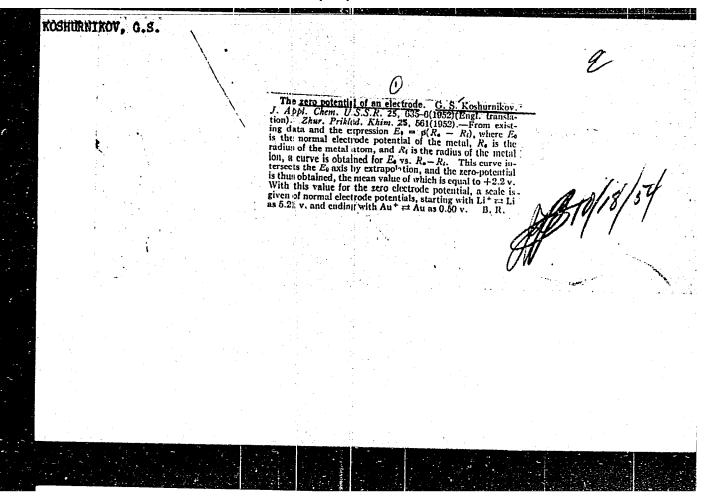


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- 1. KOSHURNIKOV, J.S.
- 2. USSR (600)
- 4. Crystallography
- 7. Effect of organic admixtures on the dissolution of crystals. Zhur, prikl. khim. 25, no. 12, 1952.

9. Monthly List of Russian Accessions, Library of Congress, Murch 1953. Unclassified.

* " FURHIKOV, G.S.

137-58-2-3649

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 195 (USSR)

AUTHOR: Koshurnikov, G.S.

TITLE: Effect of Ultraviolet Radiation on the Protective Properties

of Anticorrosion Lacquer Coatings (Vliyaniye ul'trafioletovogo oblucheniya na zashchitnyye svoystva antikorro-

zionnykh lakovykh pokrytiy)

PERIODICAL: V sb.: Raschet i issledovaniye v optichesk. priborostr.,

Leningrad, LGU, 1956, pp 126-128

ABSTRACT: A communication on the use of ultraviolet radiation to dry

paint and lacquer coatings. Comparative data on the protective properties of 41-T lacquer (L) after air drying, forced drying (150°C), and after exposure to ultraviolet irradiation (with a PRK-4 lamp) are presented. The protective properties of the L were determined by the time required for a 10% HCl solution to penetrate through a film of L applied to the metal surface. The L was applied by immersion, and also electrophoretically. It was established that ultraviolet irrad-

iation of the films diminishes penetrability of coatings.

Card 1/1

D. Ya.

Lacquer coatings--Drying--Effects of ultraviolet rays

2. Paint-Drying-Effects: of ultraviolet rays

137-58-4-7916

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 222 (USSR)

AUTHOR: Koshurnikov, G.S.

TITLE: Electrophoretic Application of Lacquer Coatings to the Surface

of Metals (Elektroforeticheskoye naneseniye lakovykh plenok na

poverkhnost' metallov)

PERIODICAL: Sb. nauchn. tr. kafedr. matem., mekhan., khimii. Leningr. in-t tochnoy mekhan. i optiki, 1957, Nr 24, pp 91-94

ABSTRACT: An investigation is made of the protective properties of lacquer coatings (LC) applied to mild polished Fe by electrophoresis, by means of nonaqueous solutions. 41-T lacquer was dissolved in acetone in volumetric ratios of 70:30, 50:50, 20:80, and 10:90, respectively. Glycerin-phthalic anhydride lacquer was deposited from a 50% acetone solution. Electrophoresis

was continued for 15 min at low current and 24-300 volt potential. The walls of an Fe beaker served as the cathode. The lacquer coating was dried at 158°C. Weight-loss tests for corrosion performed in a 10% HCl solution showed that the electrophoretic

method of applying LC to Fe permits the production of coatings 1.2 to 1.3 times as thick, and 5 to 6 times as effective in pro-

Card 1/2

137-58-4-7916

Electrophoretic Application of Lacquer Coatings to the Surface of Metals tective properties as LC produced by immersion. Bibliography: 16 references.

Ye.Z. Lacquer coatings 2. Metals--Coatings 3. Electrophoresis--Applications

Card 2/2

137-58-4-7908

Translation from: Referativnyy zhurnal, Metallurgiya, 1958. Nr 4, p 221 (USSR)

AUTHORS: Koshurnikov, G.S., Nemilova, I.V.

TITLE:

Use of Anti-corrosive Organic Coating on Oxidized Mild Steel and Aluminum Surfaces (Primeneniye antikorrozionnogo organicheskogo pokrytiya po oksidirovannoy poverkhnosti myagkoy stali i alyuminiya)

PERIODICAL: Sb. nauchn. tr. kafedr matem., mekhan., khimii, Leningr. in-t tochnoy mekhan. i optiki, 1957, Nr 24, pp 95-102

ABSTRACT: The resistance to corrosion in a 10% HCl solution of lacquer coatings on oxidized specimens of mild steel and Al was investigated with two methods of application of 41-T lacquer to the metals. It is shown that an electrophoretic coating of lacquer on an oxidized surface increases the corrosion resistance of specimens of Al by a factor of 70 and of steel by 25 to 30 fold. Note is taken of the small difference in the corrosion resistance of a lacquer coating applied electrophoretically and by simple immersion of oxidized Al samples.

Card 1/1

1. Steel--Corrosion prevention
Organic coatings--Applications

P.S.

2. Aluminum--Corrosion prevention

26872

5.1310 1160 1273 1087

S/081/61/000/013/005/028 B105/B201

AUTHORS:

Koshurnikov G. S., Ivanova A. P., Levinzon A. L.

TITLE:

Electrocrystallization of metals in the presence of organic and inorganic substances. Communication I

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 13, 1961, 86, abstract 136652. (Sb. nauchn. tr. kafedr matem. grafiki, khimii i teor. mekhan. Leningr. in-t tochnoy mekhan. i optiki, 1960, vyp. 31, 110-119)

TEXT: The authors studied the effect of organic and inorganic admixtures to electrolytes on the electrical resistance (ER) of metallic coats. ER of Cu coats, obtained from CuSO₄ solutions, is first lowered with increasing current density i, and then rises again, deposits of dendritic structure being formed. If HNO₃ and H₂SO₄ are added to the CuSO₄ solution, the ER minimum disappears, and the dendritic form is not formed. An addition of H₂BO₃ shifts the ER minimum toward greater i, while an

Card 1/2

Electrocrystallization of metals in ...

26872 S/081/61/000/013/005/028 B105/B201

addition of Na₂SO₄, MgSO₄, and Al₂(SO₄)₃ shift it to smaller i. The increase of the minimum of ER, which depends on the nature of the cation was explained by the inclusion of the hydroxides into the interstices of the crystals. An addition of benzoic acid and aniline increase ER considerably, while an addition of phenol and sugar is almost ineffective. Abstracter's note: Complete translation.

Card 2/2

2573**7** 8/123/61/000/012/023/042 A004/A101

15.7600

AUTHOR:

Koshurnikov, G. S.

TITLE:

Electrophoretic application of lacquer films on metal surfaces

PERIODICAL:

Referativnyy zhurnal, Mashinostroyeniye, no. 12, 1961, 95, abstract 12B684 ("Sb. nauchn. tr. kafedr. matem., grafiki, khimii i teor. mekhan. Leningr. in-t tochnoy mekhan. i ptiki", 1960, no. 31, 149-151)

TEXT: The author presents the results of investigating the application of lacquers to metal surfaces by the electrophoretic method. Specimens from cylindric bars of soft steel and duralium 6 mm in diameter and 90 mm long and from magnesium-manganese alloy sheets (MA1 according to AMTU 167) with the dimensions 50 x 10 x 4 mm were cleaned with emery cloth, washed with acctone and treated electrochemically in acctone phenol solutions, after which they were coated with lacquer by the electrophoretic method. Comparative corrosion tests showed the highly protective properties of lacquer films applied by the electrophoretic method onto an adsorption phenol layer. The mentioned coats were not only



Card 1/2

25737 S/123/61/000/012/023/042 A004/A101

Electrophoretic application of lacquer ...

resistant to cold and hot 10% hydrochloric acid and to the 3% solution of boiling acetic acid, but even showed no signs of corrosion damage after a 236-day exposure to the atmosphere of an industrial, town.

N. Savina

[Abstracter's note: Complete translation]

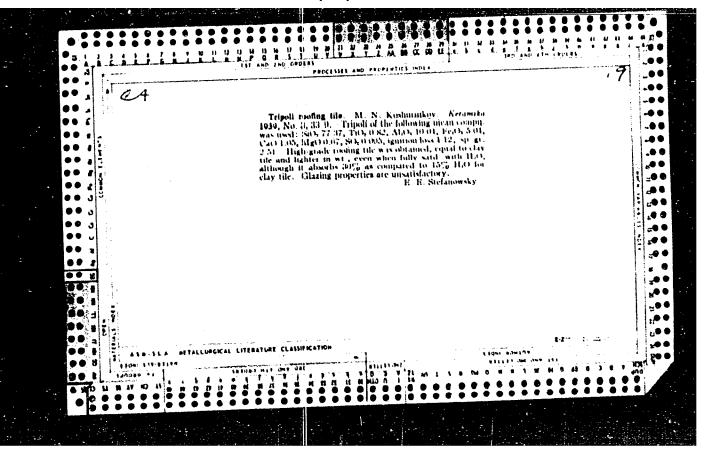
Card 2/2

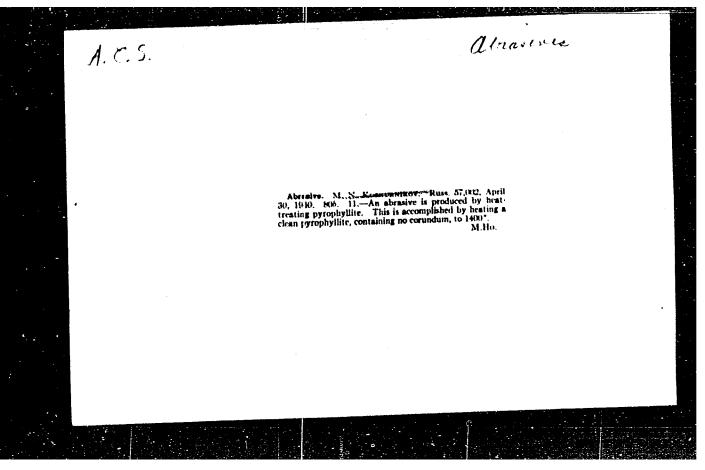
KOSHURNIKOV, K. 3.

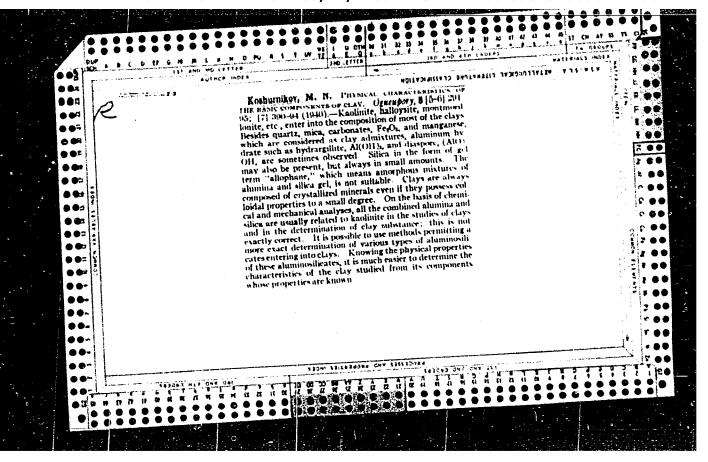
Grinding Poliching

Deviet (o: finithing cylindrical parts. Sten. i instr., 23, no. 6, 1952

Monthly List of Russian Accessions, Library of Congress, November 1951. Unclassified.







A.C.S. A. E. Zurranov. Openspery, 1943, No. 4), pp. 22-22.

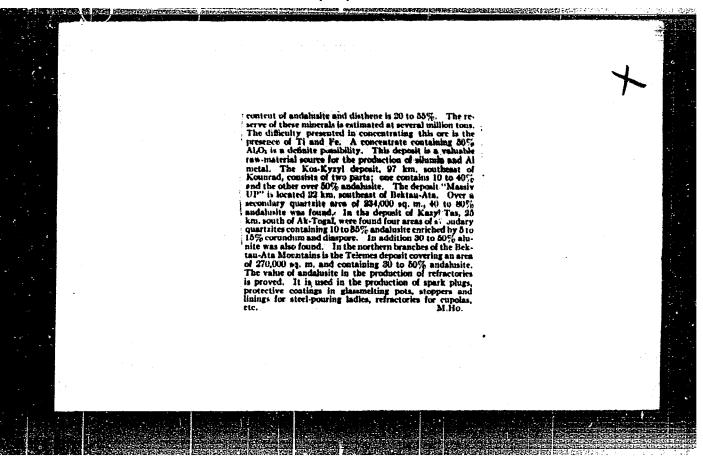
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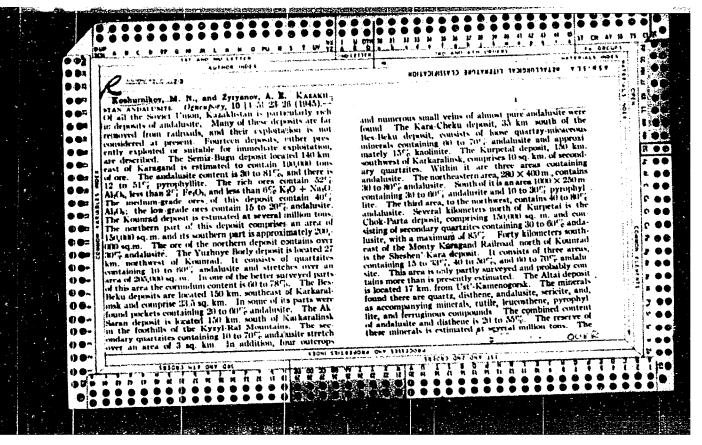
Old proposition of the semi-about deposition defects is of or. The andalmstile content is 20 to 81% and there is no over the receivable of the deposit contain 140, 100 km.

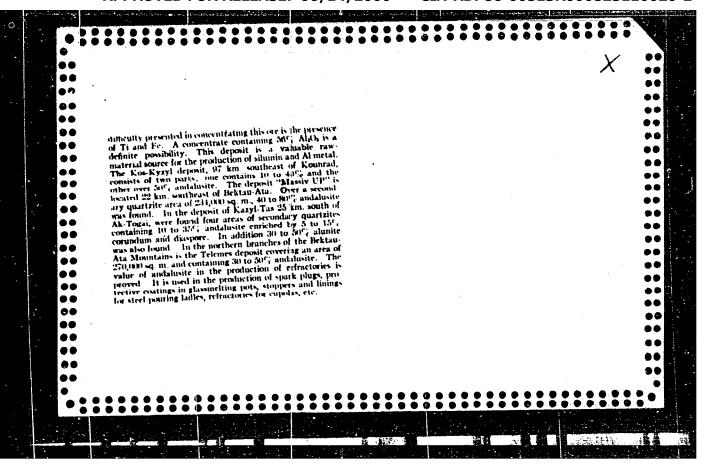
It to fir proposition over contain 150 to 20% andalmstile. Also, then 25% FeVb, and less than 6% K/O + Na-O.

Also, less than 25% FeVb, and less than 6% K/O + Na-O.

Also, the for-grade over contain 15 to 20% andalmstile. Also, the for-grade over contain 15 to 20% andalmstile. Also, the for-grade over contain 15 to 20% andalmstile. Also, the for-grade over contain 15 to 20% andalmstile. The former part of this deposit contains 40% 20%. If the interferent deposit contains 25% and 2







KOMOROV, A.V., dotsent; KOSHURNIKOV, N.M., professor.

[Building materials] Stroitel'nye materialy. Moskva, Gos.isd-vo lit-ry po (MIRA 6:12) stroitel'stvu i arkhitekture, 1953. 295 p. (Building materials)

16(4)
AUTHORS: Koshurnikov, N.L., and Komarov, V.K., Engineers

TITLE: Breakdown of a Flood Gate Made of Low-Alloy Steel (Razrusheniye zatvora iz nizkolegirovannoy stali)

PERIODICAL: Gidrotekhnicheskoye stroitel'stvo, 1959, Nr 4, pp 23-27 (USSR)

ABSTRACT: The article deals with the breakdown of a 3.5 x 5.7 m flood gate made of "St.NL-2" type low-alloy steel. The defects consisted of crosswise ruptures and fissures in the central part of the flood gate and also along its welding joints. In addition to this, the flood gate had deflected inward as much as 135-150 mm. The breakdown was attributed to insufficient stability against vibration stress, which in its turn was caused by the following factors: 1) poor welding; 2) poor design; 3) incorrect pressure distribution within the flood gate's framework;

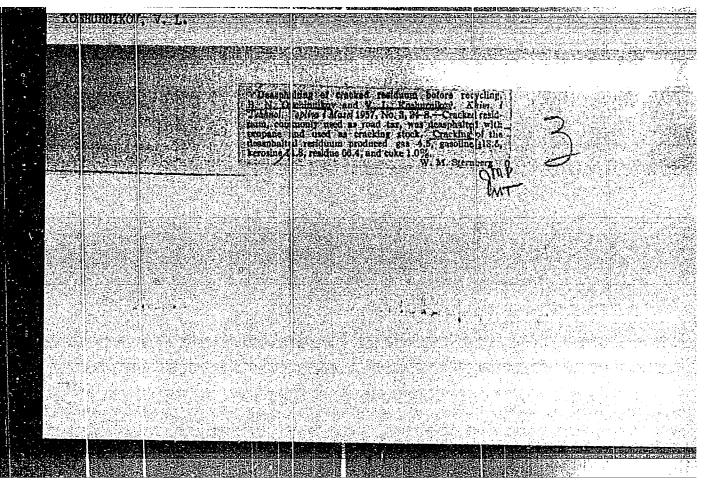
4) wrongly-made apertures and slots which caused Card 1/2 the flood gate vibrate even when closed. The break-

SOV/98-59-4-5/17 Breakdown of a Flood Gate Made of Low-Alloy Steel

down was also hastened by an exceedingly long service period in a half-opened state, thus promoting vibration. There were no inspections made for as long as two navigation seasons. As a result, the paint had completely disappeared and the flood gate was thus seriously corroded. There are 2 tables, 3 diagrams and 2 Soviet references.

Card 2/2

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825110020-2



KOSHURNIKOVA, N.A.

BETWEEN THE STREET STREET, STR

Histopathology of the ovaries in chronic inflamation of the fallopian tubes and its residual effects [with summary in English]. Akush. i gin. 33 no.3:74-78 My-Je '57. (MLRA 10:8)

1. Iz Instituta akusherstva i ginekologii (dir. L.G.Stepanov)
Ministerstva zdravockhraneniya RSFSR
(FALLOPIAN TUBES, dis.
with overien histopathol. changes (Rus))
(OVARIES, pathol.
changes in fallopian tube dis., histopathol. (Rus))

KOSHURNIKOVA, N.A., Cand Med Sci -- (diss)"Histology of the ovaries in chronic inflamation of the fellopian tubes and its remaining hypogrances." Mos, 1958, 7 pp. (Min of Health USSR. Central Inst for Advanced Training of Physicians) 200 copies (KL, 39-58, 112)

- 66 -

n, galoga. Kan<mark>ela selekunga selekunga nem</mark>akan <mark>k</mark>ebalah

28 232 \$/581/61/000/000/003/020 D299/D304

17.1220

Bogatov, L.V. and Koshurnikova, N.A. AUTHORS:

Changes in the blood system of rabbits with multiple TITLE:

repeated external gamma-irradiation

SOURCE:

Lebedinskiy, A.V. and Moskalev, Yu.I., eds. Biologiches-koye deystviye radiatsii i voprosy raspredeleniya radioaktivnykh izotopov; sbornik rabot. Moscow, Gosatomizdat,

1961, 29-37

For a fuller study of the changes in the rabbit blood TEXT: system throughout the whole period of prolonged gamma-radiation a complex study of the findings from hematological and cystological examination of the hemopoietic organs was made. The rabbits were killed off after total doses of 210, 420, 630, 900, 1410, 1920 and 2490 r. A detailed account of the changes in the bone marrow, spleen and lymph nodes is given. These changes can be broken down into 3 periods. Period I from the start of irradiation until a

Card 1/4

28232 S/581/61/000/000/003/020 D299/D304

Changes in the blood system ...

dose of 630 r. Changes in the peripheral blood and the hemopoietic organs increase. The inhibition of granulocytopoiesis and thrombocytopoiesis in the peripheral blood and the inhibition of lymphopoiesis in the spleen and lymph nodes are accompanied by a rise in leukopenia and thrombopenia in the peripheral blood. Thanks to greatly heightened regeneration in the erythropoietic system, the red blood does not change. After a dose of only 60 r relative hyperplasia of the red growth begins. These data are contrasted with those of O.V. Belousova (Ref. 1: Patologicheskaya fiziologiya ostroy luchevoy bolezni (The Pathological Physiology of Acute Radiation Sickness), M., Medgiz, 1958, pp. 192-211). Period I is therefore the period of primary reactions, marked by early simultaneous onset of changes in erythropoiesis and leukopoiesis, inhibition of the white growth and hyperplasia of the red. Period II from 900 r to 1410 r. This is first marked by a sharp drop in the absolute number of erythropoietic cells, followed by stabilization on a low level. The number of nucleus-containing cells in the bone-

Card 2/4

25232 S/581/61/000/000/003/020 D299/D304

Changes in the blood system ...

marrow fell to 53% of normal as a result. Mitotic activity was greatly inhibited in both the marrow and the lymphopoietic organs, The lack of rising blood system changes in this period indicates that the rabbits were adapting to the rhythm of irradiation; new reparative processes apparently developed under the protracted irradiation. Period III from 1920 to 2490 r. This is marked by relative normalization of the hemopoietic organs' quantitative composition; total cellularity increases to 66% of normal, as opposed to 33% in period II. Mitotic activity increases and the number of erythroblastic cells rises more intensively. Under protracted irradiation qualitatively new cells, capable of division, can apparently emerge. In both the red and the white blood of the marrow, spleen and lymph nodes cell regeneration proceeds normally, but with greater mobilization of deep reserves of hemopoiesis, as is indicated by the increase in the number of reticular cells. The main preference is for exythropoietic regeneration, as the most important process for the continuation of life. There are 2 figures, 1 table and 20 references: 11 Soviet-bloc and 9 non-Soviet-

Card 3/4

28247

S/581/61/000/000/018/020 D299/D304

27-1220

AUTHOR:

Koshurnikova, N.A.

TITLE:

The histopathology of the sex glands in rabbits affected

by incorporated plutonium

SOURCE:

Lebedinskiy, A.V. and Moskalev, Yu.I., eds. Biologicheskoye deystviye radiatsii i voprosy raspredeleniya radioaktivnykh izotopov; sbornik rabot. Moscow, Gosatomizdat,

1961, 164-173

TEXT: In view of the shortage of published data on the effects of incorporated radioactive isotopes, the author made a study of the histopathology of the sex glands in rabbits affected by incorporated plutonium at both near and remote dates after the isotope entered the body. $Pu(NO_3)_4$ was injected intravenously in the following doses: group I = 21, group II = 14, group III = 7 and group IV = 2 μ c/kg. Groups I and II sustained acute and subacute radiation sickness and mainly died of aplasia of the bone tissue. Groups

Card 1/3

S/581/61/000/000/018/020

The histopathology of the sex glands... D299/D304

III and IV showed symptoms of radiation sickness. Group III animals died mainly of cirrhosis of the liver and group IV animals of osteosarcomata. Histological examination showed that part of the plutonium was retained in the connective structures of the sex glands. The incorporated plutonium led to a whole series of pathomorphological lesions which broadly consisted in the damage and death of the parenchymatous elements of the testes and ovaries. The degree of illness varied with the dose of plutonium and the time which had elapsed since its injection. In the early stages the main role in the development of pathological lesions of the sex glands is played by the direct action of radiation; at later stages the general state of the body is of prime importance. The changes in spermatogenesis were of a phase nature: inhibition phases alternated with phases of restoration. Spermatogonia were restored by the undifferentiated cells of the sperm ductules. In the ovaries restoration apparently did not occur under the constant radiation from the incorporated plutonium. There are 2 figures, 2 tables and 17 references: 8 Soviet-bloc and 9 non-Soviet-bloc.

Card 2/3

28247

The histopathology of the sex glands... S/581/61/000/000/018/020 D299/D304

The 4 most recent references to English-language publications read as follows: T. Carter and oth. Brit. J. Radiol., 27, 320, 418 (1954); L.C. Fogg a. R.F. Cowing, Cancer Res., 11, 23, (1951); L. Lamerton, H. Questler, J.P.M. Bensted and oth. British J. Radiology, 32, 380, 501 (1959); R.H. Mole, British J. Radiol., 32, 380, 497 (1959).

Card 3/3

44073

27.1220

s/742/62/000/000/015/021 I015/I215

AUTHORS:

Lemberg, V.K., Koshurnikova, N.A., Klyzhuk, K.N.

TITLE:

The effect of incorporated plutonium-239 on the

blood in rabbits

SOURCE:

Plutoniy-239; raspredeleniye, biologicheskoye deystviye, uskoreniye vyvedeniya. Ed. by A.V. Lebedinskiy and Yu.I. Moskalev. Moscow, Medgiz,

1962, 92-102

TEXT: The effect of incorporated Pu on the blood has been insufficiently studied and the data present in the medical literature is a matter of controversy. Experiments were carried out on 119 rabbits (Shinshil strain) weighing 2500-3000 g. They were administered i.v. 7 and $2\mu Cu/kg$ b.w. of plutonium nitrate (pH = 2). The

Card 1/2

8/742/62/000/000/015/021 I015/I215

The effect of incorporated plutonium-239...

peripheral blood and the bone marrow were examined during life and after killing of the animals as well. The investigation lasted for 15 months. The distribution of Pu in the hemopoietic organs was studied histoautoradiographically. A part of the radioisotope was retained in the reticulo-endothelial system. The bone marrow was affected focally due to the distribution characteristics of Pu in RES-cells. The lymphatics were relatively well preserved due to poor distribution of Pu in the lymphopoietic organs — (the white pulp of the spleen and the germinative centers of the follicles in lymph notes). The peripheral blood showed only very slight changes. This figures and 1 table.

Card 2/2

l 34919-65

ACCESSION NR: AT5006104

8/0000/64/000/000/0042/0061

AUTHOR: Yerokhin, R. A.; Koshurnikova, N. A.; Lyubchanskiy, E. R.; Nifatov, A. P. Reshetov, G. N.

TITLE: Content and microdistribution of plutonium-239 in rat lung and liver and morphological changes in these organs after intratracheal administration of the isotope

SOURCE: Raspredeleniye, biologicheskoye devstviye, uskoreniye vyvedeniya radioaktivnykh izotopov (Distribution, biological effect, acceleration of the excretion of radioactive isotopes); sbornik rabot. Hoscow, Izd-vo Meditsina, 1964, 42-61

TOPIC TAGS: plutonium-239, radioisotope, inhalation, liver, lung, pathology, radioactivity, lymphatic system

ABSTRACT: The behavior of plutonium in the lung following intratracheal administration of various salts is determined largely by the physicochemical form of the compound used. The plutonium content of the lungs after administration of the nitrate was 5-10 times higher than after administration of sodium plutonyl triacetate. The clearance of plutonium administered in the form of these two salts obeys the exponential law, but it was more rapid in the case of the second salt. A large quan-

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1 34919-65

ACCESSION NR: AT5006104

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tity of plutonium was transported from the lungs by macrophages into the regional lymph nodes. Plutonium accumulated in the liver during the early phase (20 minutes to 24 hours) more slowly after administration of the nitrate than it did after administration of sodium plutonyl triacetate. During the later phases (4 to 6 months) the rate of deposition in the liver was about the same after administration of either form of plutonium - 0.90-0.58 and 0.95-0.57% of the dose administered.

The microdistribution of plutonium in rat liver after intratracheal administration of the two plutonium salts was quite diffuse. Histological changes in the lung varied with the nature of the microdistribution of the element and they arose mainly in the places where the isotope concentrated. The severity of the pathological changes and the time when they developed were related to the ionization dose that accumulated. Among the earliest changes were degeneration, desquamation of bronchial and alveolar epithelium, and perivascular edema. These were followed by chronic inflammation, chiefly productive in character. The pathological process developed into pneumosclerosis as a result of the proliferation of connective-tissue cellular elements with the formation of fibrous structures. No significent morphological changes were noted in the liver after intratracheal administration of puc/kg of plutonium nitrate or sodium plutonyl triacetate. Orig. art. has: 15 figures, 2 tables.

Card 2/3

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825110020-2

	ACCESSION NR: AT5006104 ASSOCIATION: none		0	
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	NO REF SOV: 000	OTHER: 000		
57% 58%	Card 3/3			

L 34119-65 EWG(j)/EWT(m) GS ACCESSION NR: AT5006127 \$/0000/64/000/000/0217/0224 AUTHOR: Kudasheva, N. P.; Koshurnikova, N. A. TITIE: Effect of additional pathological agents on the peripheral blood of rats exposed to plutonium-239 SOURCE: Raspredeleniye, biologicheskoye deystviye, uskoreniye vyvedeniya radioaktivnykh izotopov (Distribution, biological effect, acceleration of the excretion of radioactive isotopes); sbornik rabot. Moscow, Izd-vo Meditsina, 1964, 217-224 TOPIC TAGS: plutonium-239, radioisotope, radioactivity, peripheral blood, erythrocyte, leukocyte ABSTRACT: Additional stresses (pepeated bleeding and aseptic inflammation produced by turpentine) placed on rats that had received plutonium it a low dose (0.63 pc/kg) known to have little effect on the peripheral blood failed to produce significant changes in the number of erythrolytes and reticulocytes or the hemoglobin concentration. Nor were there appreciable effects on the white blood cells. The gradual decrease noted in the total number of leukocytes and lymphocytes and the increase in the neutrophils were probably age-related because they were found in both experimental and control animals at more or less the same intervals. Orig. art. has: 4 Cord 1/2

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825110020-2

L 34119-65 ACCESSION NR: AT5006127			
figures, 1 table.			0
ASSOCIATION: none			
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NO REF SOV: 000	OTHER: 000		
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L 34122-65 EWG(3)/EWI(m)__GS ACCESSION NRI AT5006130 8/0000/64/000/000/0237/0242 Koshurnikova, N. A.; Le berg, V. K. AUTHOR: TITLE: Long-term effects of ase ric inflammation in rats exposed to plutonium-SOURCE: Raspredeleniye, biologiqueskoye deystviye, uskoreniye vyvedeniya radio-aktivnykh izotopov (Distribution, biological effect, acceleration of the excretion of radioactive isotopes); sbornik rabot. Moscow, Izd-vo Meditsina, 1964, 237-242 TOPIC TAGS: plutonium-239, radio sotope, radioactivity, tumor, bone, hemopolesis ABSTRACT: Aseptic inflammation was induced in the animals by subcutaneous administration of 0.1 ml of twpentine doce every 2 weeks for 3 months. Turpentine is not a carcinogen; it results in in flammation with an acute leukocyte reaction. The turpentine combined with low doses of Pu²39 (0.63 µc/kg) shortened the survival bone and blood timors in the animals of both sexes. However, repeated injections of turpentine, the administration of small amounts of Pu239, and a combination of the two factors caused some increase in the number of glandular tumors in the experimental rats. The tumors were often multiple, e.g., in the females, tumors of the hypophysis were often combined with mammary and ovarian tumors. The authors

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L 34122-65 ACCESSION NR: ATSO	006130	to the inhibitory effect of turpentine on the lasue. Orig. art. has 3 tables.	
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ASSOCIATION: none			
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24233-66 ENT(m) ACC NR: AP6014669 SOURCE CODE: UR/0241/65/010/010/0037/0041 AUTHOR: Yerokhin, R. A. -- Erokhin, R. A.; Koshurnikova, N. A.; Ternovskiy, I. A. Ternovsky, I. A. 61 ORG: none B TITIE: Gamma-spectrometric intravital determination of Pu in the living organism SOURCE: Meditsinskaya radiologiya, v. 10, no. 10, 1965, 37-41 TOPIC TAGS: plutonium, gamma spectrometer, radiology, americium, scintillation spectrometer, photomultiplier, pulse analyzer, pulse amplitude, rat, liver/FEU-24 photomultiplier, AI-100 pulse analyzer ABSTRACT: The results of an experimental determination of the possibility of the direct intravital measurement of Pu and Am241 in the organism by means of a scintillation gamma-spectrometer are presented. The principal components of the spectrometer used were: a NaI(TI) scintillation crystal 20 mm thick and 40 mm in diameter, with an FEU-24 photomultiplier and an AI-100 pulseamplitude analyzer. White rats were given, intravenously or intratracheally, Fu in the form of the nitrate salt (Pu(NO3)) with a pH value of 2.0, in the amount of 5 microcuries per rat, or Am in the form of the nitrate Am(NO3)3/ with a pH of 2.8, in the amount of 2.72 microcuries per rat. The and Am²⁴¹ contents of the rat organism were measured immediately afterward as well as at intervals of 1, 2, 4, 8, 16, 32, and 64 days. Lung activity varied identically in rate intratracheally poisoned with Pu and Am²⁴¹ UDC: 616-008.927.994-073.584

24233-65 ACC NR: AP6014669 nitrates: toward the 16th day the activity dropped 30%; toward the 32nd day, 50%; and toward the end of the experiment, 65%. Throughout the experiment, the content of Pu exceeded that of Am²⁰¹. The dynamics of the change in liver activity following administration of the Pu nitrate toward the 3rd, 7th, 30th, and 60th day was 87, 72, 41.8, and 22.5%, respectively, for Am²⁰¹ these dynamics differed somewhat. In addition, the minimum amounts of Pu and Am²⁰¹ still detectable by the spectrometric method in different organs (kidneys, liver, hip, spleen) were determined; for Pu they were found to correspond to 0.019-0.045 nicrocuries per rat organ, and for Am241, to 0.0028-0.0087 nicrocuries per rat organ. Orig. art. has: 2 figures and 4 tables. [JPRS] SUB CODE: 06, 09, 20, 07 / SURM DATE: 12Jan65 / ORIG REF: 003 / OTH REF: 005 Cord 2/2dila

KOSHUROV, B.V., kand. tekhn. nauk; PAVLYUCHUK, A.I.; TAYTS, Ye.I.; FEDOTOV, A.I.; VAKSER, D.B., red.; FREGER, D.P., red.izd-va; BELOGUROVA, I.A., tekhn. red.

[Use of diamond tools in the manufacture of machinery] Primenenie almaznogo instrumenta v mashinostroenii; stenogramma lektsii. Leningrad, Leningr. dom nauchno-tekhn. propagandy, 1963. 30 p. (MIRA 16:7) (Diamonds, Industrial) (Metal cutting)

KOSHUTA, A.A.

Use of a multiple correlation method for establishing the relationship between the cost of electrical machines and their principal parameters. Energ. i elektrotekh. prom. no.1:47-51 (MIRA 15:6)

1. Khar'kovskiy inzhenerno-ekonomicheskiy institut. (Electric machinery--Accounting)

KOSHUTA, Aleksandr Aleksandrovich; STEBUNOV, N.S., red.; SLUTSKINA, TS.S., mlad. red.

[Determining prices for the products of machinery manufacturing] Opredelenie tsem na produktsiiu mashino-stroeniia. Moskva, Ekonomika, 1964. 75 p. (MIRA 17:11)

BAT', A.A.; KOSHUTIN, B.N. (Moskva)

Statistical studies of crane loads. Stroi.mekh.i rasch. soor. 2 no.3:1-5 '60. (MIRA 13:6) (Strains and stresses) (Granes, derricks, etc.)

KOSHUTIN, B. N., Cand. Tech. Sci. (diss) "Determination of Coefficient of Overloading of Vertical Crane Load on Basis of Statistical Study of Operation of Cranes in Working Shops," Moscow, 1961, 26 pp. (Acad. of Construc. and Archit. USSR. Centr. Sc. Res. Inst. Construction Designs "TsNIISK") 160 copies (KL Supp 12-61, 269).

KOSHUTIN, M.P.

PHASE I BOOK EXPLOITATION

1076

Leningrad. Politekhnicheskiy institut

Dinamika i prochnost' mashin; (Dynamics and Strength of Machines; Collection of Articles) Moscow, Mashgiz, 1958. (Series: Its: Trudy, No. 192) 234 p. 3,300 copies printed.

Ed.: Lur'ye, A.I., Doctor of Technical Sciences, Professor;
Tech. Ed.: Pol'skaya, R.G.; Resp. Ed. of Series: Smirnov, V.A.,
Doctor of Technical Sciences, Professor; Managing Ed. for Literature
on the Design and Operation of Machines (Leningrad Division,
Mashgiz): Fetisov, F.I., Engineer.

PURPOSE: This collection of articles is intended for scientific and engineering workers concerned with problems of dynamics and strength of machines.

COVERAGE: The collection contains articles on problems of the theory of elasticity, oscillation, and automatic control.

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APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825110020-2" Dynamics and Strength of Machines (Cont.) 1076

16. Troitskiy, V.A. Stability of Intermittent-control Systems With Two Pulse Elements

220

AVAILABLE: Library of Congress

GO/ksv 1-27-59 ROLIK, A.I.; KOSHVANETS, A.Ye.; YAKOVLEV, A.I.

Study of the operation of axial fans in the cooling system of high-speed PS motors. Energ. 1 elektrotekh. prom. no.3:38-42 (MIRA 16:10) J1-S '63.

1. Khar'kovskiy aviatsionnyy institut.

TRINAJSTIC, Ljubo, inz.; Kosi, Otmar, inz.

Problems of schools and skilled vocational cadres for chemical industries and scientific research.

Alm hem ind 239-257 162.

VERESCAGIN, I.K. [Vereshchagin, I.K.]; KOSIACENKO, L.A.

On avalanche processes in electroluminescence of single ZnS-Cu crystals. Chekhosl fiz zhurnal 13 no.2:85-88 '63'.

1. State University, Chernovtsy, U.S.S.R.

1. 21911-66 EMT(m)/EPF(n)-2 ACC NR: AP6014465

SOURCE CODE: PU/0046/65/010/011/0661/0668

AUTHOR: Florkowski, Tadeusz-Flerkovski, T.; Kosiara, Andrzej-Kosyara, A.; Wasilewska, Marta-Vasilevska, M.

B

ORG: Nuclear Engineering Institute, AGH, Krakow (Instytut Techniki Jadrowej AGH)

TITIE: Comparison of radioisotope bremsstrahlung sources for excitation of the characteristic radiation in elements of 14 less than or equal to Z less than or equal to 50

SOURCE: Nukleonika, v. 10, no. 11, 1965, 661-668

TOPIC TAGS: bremsstrahlung, radloisotope, titanium, zirconium, promethium, x ray

ABSTRACT: Results of measurements for the determination of the detection efficiency of the characteristic x rays of light elements excited by the three bremsstrahlung sources 3H/Ti, 3H/Zr and 147Pm/Al are described. The detection of characteristic x rays of elements, which have the atomic number lower than 20 was performed in the hydrogen and helium atmosphere, what appreciably increases the total detection efficiency. The authors thank Prof.-Dr. L. Jurkiewicz for valuable advice and discussions on the carrying-out of the measurements as well as Dr. K. Oatrowski for discovery of the new type of proportional counter. Orig.art. has: 9 figures and 1 table./NA/

SUB CODE: 18, 20 / SUBM DATE: 0000064 / ORIG REF: 001 / OTH REF: 002

Cord 1/1 MOOS

KOSIARSKI, A.

Thiversal valve voltmeter. p.7.

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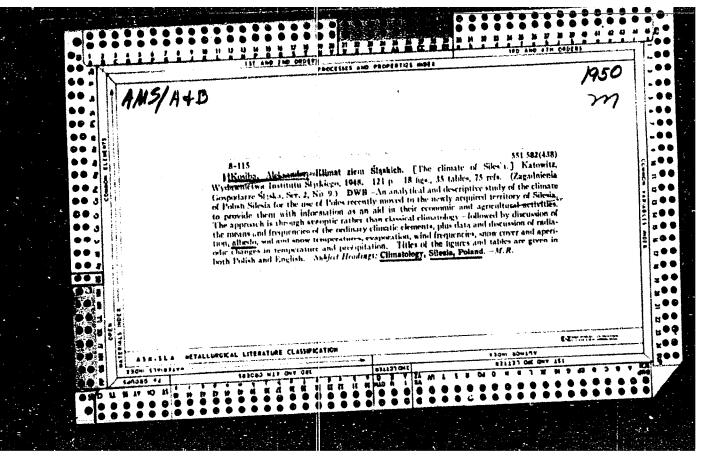
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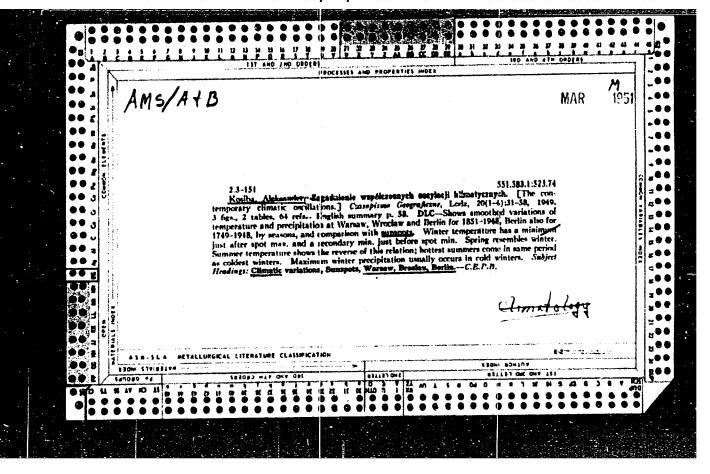


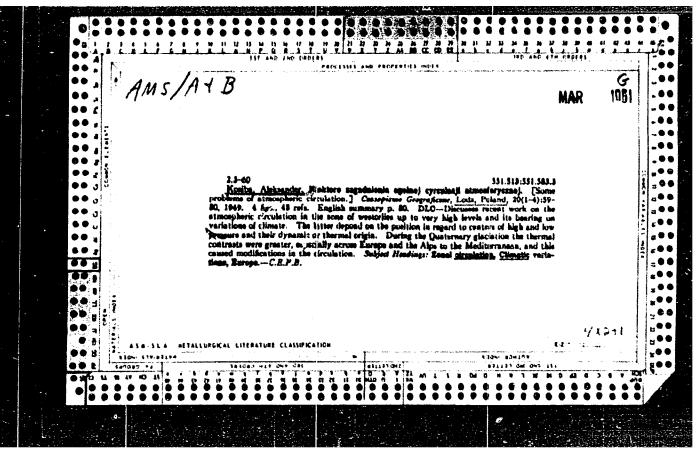
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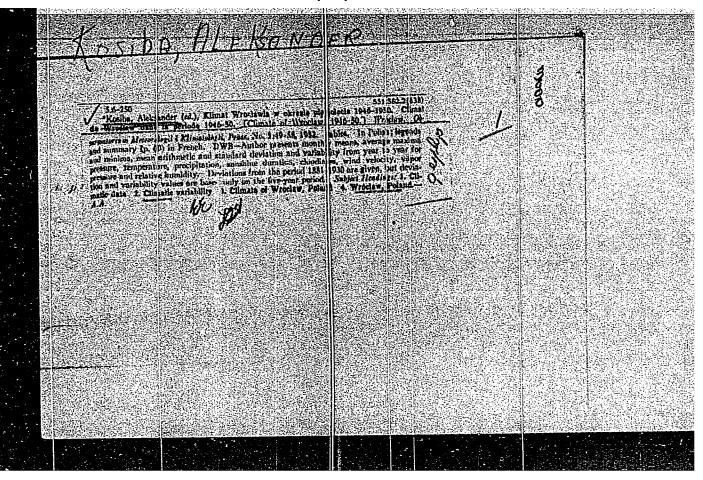
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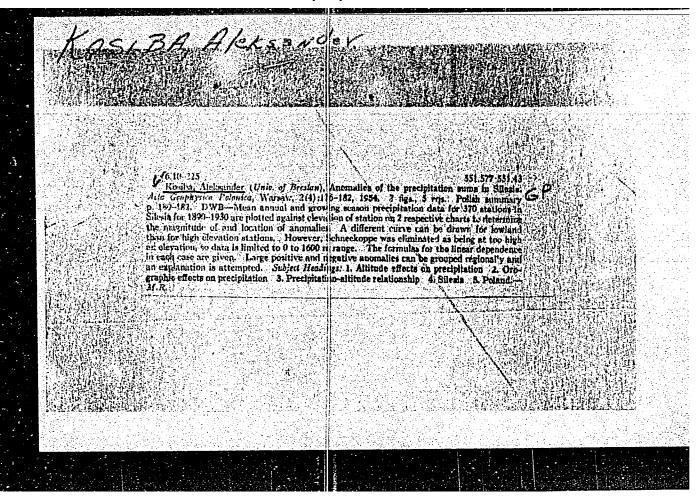
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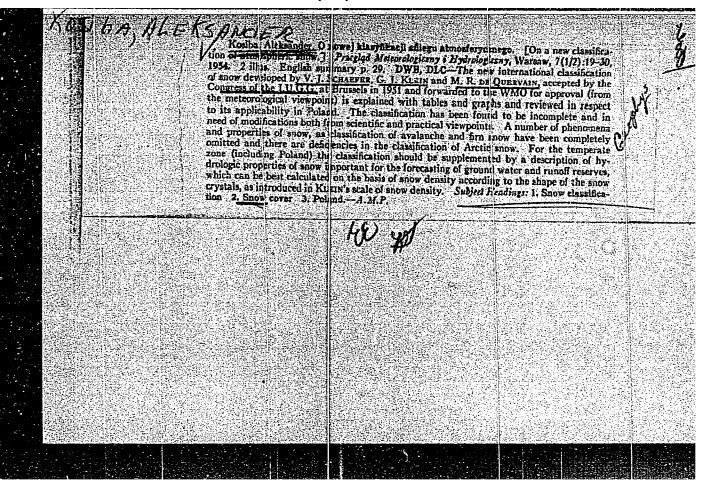
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